the south and northern branches of the bay. elements. The grid covers the entire bay from the entrance at Golden Gate Bridge and both mesh consisting of three-dimensional (e.g., rectangular, triangular) and two-dimensional For development of the hydrodynamic model, the bay was represented by a finite element

and river and freshwater flows from the Sacramento and San Joaquin Rivers. The resulting hydrodynamic output incorporates a net outflow longterm condition. The model was forced by tidal elevation at the open boundary at the Golden Gate Bridge

## Wind

station, located along the south shore of Suisun Bay, over the period of January 1995 to December 1996. Conditions were modified from the historical data from the Port Chicago meteorological Station Meteorological Climate Summary (NCDC, 1992) for the nearest recording site. (December - February) were created from summary data taken from the International Wind speed and direction time series for the Summer (July - August) and Winter Wind data used in the model simulation was based on a regional statistical wind summary.

tables are monthly statistical summaries of the probability of wind coming from a particular synthetic time series based on wind probabilities for the selected period. direction and within a range of speeds. The monthly data records generated are essentially a This wind data was compiled into monthly speed and direction probability tables. The

## 3.4.5 Trajectory Results

## Figure Description

- 3-1. Spill Time Contour Map Summer Conditions
- 3-2. Spill Time Contour Map Winter Conditions
- ယ Probability of Water Surface Oiling Map-Summer Conditions
- Probability of Water Surface Oiling Map- Winter Conditions

shoreline is determined by the tide stage and the speed, direction of the wind, and the The modeling period was a maximum of 72 hours. The time required the oil to reach the amount of material loss to evaporation.

Shore Mart-3v2

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